SIEMENS

Data sheet

3RR2141-1AW30



Monitoring relay, can be mounted to Contactor 3RT2, Size S00 basic, analog adjustment Apparent current monitoring 1.6-16 A, 20-400 Hz, 2-phase Supply 24-240 V AC/DC 1 change-over contact Monitoring for Current overshoot and undershoot Phase failure, Cable break with or without fault buffer ON delay 0-60 s Noise pulse suppression 0-30 s Switching hysteresis 6% Screw connection system

product brand name	SIRIUS
product designation	Monitoring relays
design of the product	analogically adjustable, 2-phase current monitoring
product type designation	3RR2
General technical data	
size of contactor can be combined company-specific	S00
operating apparent power rated value	4 VA
insulation voltage for overvoltage category III according to IEC 60664	
 with degree of pollution 3 rated value 	690 V
surge voltage resistance rated value	6 kV
consumed current	
• at 24 V	90 mA
• at 240 V	12 mA
protection class IP	
on the front	IP20
of the terminal	IP20
shock resistance	15g / 11 ms
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
reference code according to IEC 81346-2	К
relative repeat accuracy	2 %
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7
Supply voltage	
type of voltage of the supply voltage	AC/DC
supply voltage 1 at AC	
• at 50 Hz	24 240 V
• at 60 Hz	24 240 V
supply voltage 1 at DC	24 240 V
supply voltage frequency 1	50 60 Hz
Measuring circuit	
type of current for monitoring	AC
adjustable current response value current	
• 1	1.6 16 A
• 2	1.6 16 A
adjustable response delay time	
when starting	0 60 s

 with lower or upper limit violation 	0 30 s
With lower of upper limit violation	
temperature drift per °C	0.1 %/°C
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gG: 4 A
Communication/ Protocol	
protocol is supported IO-Link protocol	No
type of voltage supply via input/output link master	No
Auxiliary circuit	
number of CO contacts	
for auxiliary contacts	1
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 230 V	3 A
• at 400 V	3 A
operational current of auxiliary contacts at DC-13	1.0
• at 24 V • at 125 V	1 A 0.2 A
• at 125 V • at 250 V	0.2 A 0.1 A
• at 250 V contact rating of auxiliary contacts according to UL	B300 / R300
Main circuit	
operating power rated value	2.5 W
ampacity of the semiconductor output in SIO mode	20 mA
operational current at 17 V minimum	5 mA
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	ambience A (industrial sector)
EMC immunity according to IEC 60947-1	ambience A (industrial sector)
Connections/ Terminals	
product component removable terminal for main circuit	No
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
 for main current circuit 	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x (1 4 mm ²)
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
connectable conductor cross-section for main contacts	0.75 4
solid or stranded	0.75 4 mm ²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts — solid 	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
— solid — finely stranded with core end processing	1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 14)
AWG number as coded connectable conductor cross section for main contacts	20 12
tightening torque with screw-type terminals	0.8 1.2 N·m
Installation/ mounting/ dimensions	
mounting position	any
fastening method	direct mounting
height	79 mm
width	45 mm
depth	80 mm
required spacing	
 with side-by-side mounting 	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm

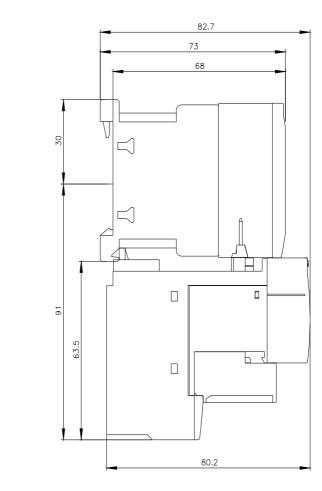
Information- and Do https://www.siemens. Industry Mall (Online	y.siemens.com/cs/ww/en/v wnloadcenter (Catalogs, com/ic10	Brochures,)	nort Environment n Environmental Con- firmations	DNV	LINS
Marine / Shipping	Special Test Certific- ate	other <u>Confirmation</u> <u>view/109813875</u>	tific- toort ABS Environment n Environmental Con-	DNV DNV	Lis
Marine / Shipping	Special Test Certific-	ates/Test Rep	tific- toort ABS Environment n Environmental Con-	L NV	Llovers Register uts
RCM	Special Test Certific-	ates/Test Rep	tific- toort ABS Environment n Environmental Con-	DNV	Llover's Register urs
RCM	Special Test Certific-	ates/Test Rep	tific- toort		Hoyd's Register uts
	Special Test Certific-		tific- port		Llovd's Kegister uis
EMV	Test Certificates		Marine / Shipping		
General Product Ap		<u>Confirmation</u>		(h) u	EAC
 during storage pprovals Certificates 	3		-40 +80 °C		_
during operatio	n		-25 +60 °C		
ambient temperature					
mbient conditions	height above sea level ma	ximum	2 000 m		
- at the side	9		6 mm		
— downward	ds		0 mm		
— upwards	0		0 mm		
— forwards — backward	\$		0 mm 0 mm		
• for live parts					
— downward	st		0 mm		
— at the side	e		6 mm		
	S		0 mm 0 mm		
— backward — upwards			0 mm		
— forwards — backward — upwards					
- backward			0 mm		

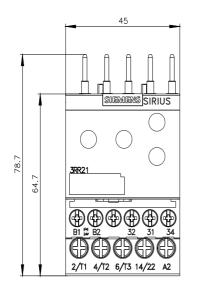
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

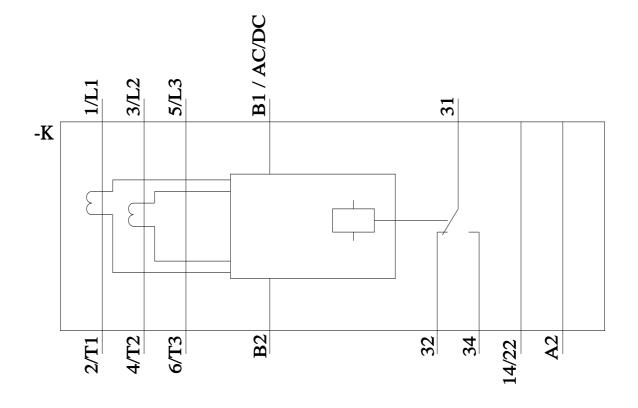
https://support.industry.siemens.com/cs/ww/en/ps/3RR2141-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RR2141-1AW30&lang=en

Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RR2141-1AW30/manual







last modified:

3/11/2024 🖸